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## TEST REPORT

| | |
|---|---|
| Client: | Bruhat Bangalore Mahanagara Palike |
| Project: | Package-4(6 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Consultants: | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor: | M/s Sip Infra Engineers Pvt Ltd. |
| Total Weight: | 10000 gms |

## SIEVE ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| Type of Material: | 20 mm down size | | **Proposed Use** | Concrete | |
| Sample Location: | Plant/At site | | **Date of Sampling** | 15.03.19 | |
| | | | **Date of Testing** | 15.03.19 | |
| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
| 40.00 mm | 0 | 0 | 0 | 100 | 100 |
| 20.00 mm | 252 | 252 | 2.52 | 97.48 | 95 - 100 |
| 10.00 mm | 4832 | 5084 | 50.84 | 49.16 | 25 - 55 |
| 4.75 mm | 4210 | 9294 | 92.94 | 7.06 | 0 - 10 |
| Pan | 706 | 10000 | | | |

Remarks: ✓ Satisfactory / Not Satisfactory

Note:

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CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Lab No.: CECTC-IWD-049-2019-20 Date: 16.03.2019

# TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Bruhat Bangalore Mahanagar Palike.**
Agency : **M/s. SLP Infra Engineering Pvt Ltd.,** Contractor, Bangalore.
Name of Work : Package-05 1.Improvement to Roads and Drains at AshrayaBadavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11.
Sample Identification: : 8mm,10mm. Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test: : 16.03.2019

| Sl.No | Nominal size (dia in mm) | Mass per metre (kg/metre) | TENSILE STRENGTH | | |
|---|---|---|---|---|---|
| | | | 0.20 % proof stress/ yield stress ($N/mm^{2)}$ | Tensile strength ($N/mm^{2)}$ | Elongation, percent on gauge length |
| 1 | 8 | 0.395 | 515 | 558 | 17 |
| 2 | 10 | 0.617 | 561 | 615 | 18 |

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For Civil Experts

Authorised Signature

# 174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

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## Test Report on Compressive strength of Solid Block

| | |
|---|---|
| Project | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | M/S Slp Infra Engineers Pvt Ltd. |
| Cross sectional area | 80000mm2 |
| Size of cube | 400mm x 150mm x 200mm |
| No. of Block Tested | 1 |
| Reference IS code: | IS:2185 (Part 1)- 2005 |

| Sl.No. | Date of Sampling | Date of testing | Area of Cube | Failure load | Compressive strength | Obtained Average compressive strength | Minimum Required compressive strength of individual units |
|---|---|---|---|---|---|---|---|
| | | | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ | $N/mm^2$ |
| 1 | 17.03.19 | 17.03.19 | 80000 | 407.00 | 5.09 | 5.09 | 5.00 |
| 2 | 17.03.19 | 17.03.19 | 80000 | 405.00 | 5.06 | | |
| 3 | 17.03.19 | 17.03.19 | 80000 | 409.00 | 5.11 | | |

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## TEST REPORT

| | |
|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike |
| Project | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Consultants | TEJUS CONSULTANTS |
| Contractor | M/s Slp Infra Engineers Pvt Ltd. |
| Total Weight: | 10000 gms |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| Type of Material | 12.5 mm down size | Proposed Use | CONCRETE |
| Sample Location | At Site/Plant | Date of Sampling | 18.03.19 |
| | | Date of Testing | 18.03.19 |

| IS Sieve Size (in mm) | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
|---|---|---|---|---|---|
| 20.0 | 0 | 0 | 0 | 100 | 100 |
| 12.5 | 528 | 528 | 5.28 | 94.72 | 90-100 |
| 10.0 | 4695 | 5223 | 52.23 | 47.77 | 40-85 |
| 4.75 | 4555 | 9778 | 97.78 | 2.22 | 0-10 |
| Pan | 222 | 10000 | | | |
| | | | | | |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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## TEST REPORT

| | | | | | |
|---|---|---|---|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike | | | | |
| Project | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 | | | | |
| Consultants | TEJUS CONSULTANTS | | | | |
| Contractor | M/s Slp Infra Engineers Pvt Ltd. | | | | |
| Total Weight: | 10000 | gms | | | |

## SIEVE ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| Type of Material | 12.5 mm down size | | Proposed Use | CONCRETE | |
| Sample Location | At Site/Plant | | Date of Sampling | 18.03.19 | |
| | | | Date of Testing | 18.03.19 | |
| IS Sieve Size (in mm) | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
| 20.0 | 0 | 0 | 0 | 100 | 100 |
| 12.5 | 556 | 556 | 5.56 | 94.44 | 90-100 |
| 10.0 | 4672 | 5228 | 52.28 | 47.72 | 40-85 |
| 4.75 | 4532 | 9760 | 97.60 | 2.40 | 0-10 |
| Pan | 240 | 10000 | | | |
| | | | | | |

Remarks : ✓ Satisfactory / Not Satisfactory

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No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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## TEST REPORT

| | |
|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike |
| Project | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | M/s Slp Infra Engineers Pvt Ltd. |
| Total Weight: | 10000 gms |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| Type of Material | 20 mm down size | **Proposed Use** | Concrete |
| Sample Location | Plant/At site | **Date of Sampling** | 18.03.19 |
| | | **Date of Testing** | 18.03.19 |

| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
|---|---|---|---|---|---|
| 40.00 mm | 0 | 0 | 0 | 100 | 100 |
| 20.00 mm | 262 | 262 | 2.62 | 97.38 | 95 - 100 |
| 10.00 mm | 4832 | 5094 | 50.94 | 49.06 | 25 - 55 |
| 4.75 mm | 4220 | 9314 | 93.14 | 6.86 | 0 - 10 |
| Pan | 686 | 10000 | | | |

Remarks :

Satisfactory / Not Satisfactory

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## TEST REPORT

| | |
|---|---|
| Client: | BRUHAT BENGALORE MAHANAGARA PALIKE |
| Project: | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Consultants: | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor: | M/s Slp Infra Engineers Pvt Ltd. |

# SPECIFIC GRAVITY AND WATER ABSORPTION

## FINE AGGREGATE (IS-2386-PART-3)

| | | | |
|---|---|---|---|
| Type of Material: | Fine aggregate (River Sand/ M sand) | **Proposed Use** | concrete |
| Location/Source: | At Site/Plant | **Date of Sampling** | 18.03.19 |
| Period of Soaking: | 24 hours | **Date of Testing** | 18.03.19 |

| Sl. No. | Test Property | TRIAL - 1 | TRIAL - 2 | TRIAL - 3 | |
|---|---|---|---|---|---|
| A | Weight of sturated surface dry sample gm. | 648 | 679 | 658 | |
| B | Weight of oven - dry sample gm. | 641 | 672 | 648 | |
| C | Weight of Pycnometer Filled with water gm | 1275 | 1275 | 1275 | |
| D | Weight of Pycnometer + sample + water gm | 1682 | 1701 | 1690 | |
| E | Bulk specific gravity $\frac{B}{(C+A-D)}$ | 2.660 | 2.656 | 2.667 | **2.661** |
| G | Absorption (%) $\frac{(A-B)*100}{B}$ | 1.092 | 1.042 | 1.543 | **1.226** |

Note:

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## TEST REPORT

| | |
|---|---|
| Client | Bruhat Bangalore Mahanagara Palike |
| Project | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Consultants | Tejus Consultants, Bangalore |
| Contractor | M/s Slp Infra Engineers Pvt Ltd. |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| Total Weight: | 3000 gms | | |
| Type of Material | Fine aggregate (River Sand/ M sand) | Proposed Use | concrete |
| Sample Location | At Site/Plant | Date of Sampling | 18.03.19 |
| | | Date of Testing | 18.03.19 |

| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing (Zone-II) |
|---|---|---|---|---|---|
| 10.00 mm | 0 | 0 | 0 | 100.00 | 100 |
| 4.75 mm | 210 | 210 | 7.00 | 93.00 | 90 - 100 |
| 2.36 mm | 306 | 516 | 17.20 | 82.80 | 75 - 100 |
| 1.18 mm | 422 | 938 | 31.27 | 68.73 | 55 - 90 |
| 0.600 mm | 486 | 1424 | 47.47 | 52.53 | 35 -59 |
| 0.300 mm | 710 | 2134 | 71.13 | 28.87 | 8-30 |
| 0.150 mm | 632 | 2766 | 92.20 | 7.80 | 0 - 10 |
| Pan | 234 | 3000 | | | - |
| | | | | | |

Remarks : ✓ Satisfactory / Not Satisfactory

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## TEST REPORT

| | |
|---|---|
| Client: | BRUHAT BENGALORE MAHANAGARA PALIKE |
| Project: | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Consultants: | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor: | M/s Slp Infra Engineers Pvt Ltd. |

# SPECIFIC GRAVITY AND WATER ABSORPTION

## FINE AGGREGATE (IS-2386-PART-3)

| | | | |
|---|---|---|---|
| Type of Material | Fine aggregate (River Sand/ M sand) | Proposed Use | concrete |
| Location/Source | At Site/Plant | Date of Sampling | 18.03.19 |
| Period of Soaking | 24 hours | Date of Testing | 18.03.19 |

| Sl.No. | Test Property | | TRIAL - 1 | TRIAL - 2 | TRIAL - 3 | |
|---|---|---|---|---|---|---|
| A | Weight of sturated surface dry sample gm. | | 648 | 678 | 658 | |
| B | Weight of oven - dry sample gm. | | 641 | 670 | 648 | |
| C | Weight of Pycnometer Filled with water gm | | 1275 | 1275 | 1275 | |
| D | Weight of Pycnometer + sample + water gm | | 1682 | 1701 | 1690 | |
| E | Bulk specific gravity | $\frac{B}{(C+A-D)}$ | 2.660 | 2.659 | 2.667 | **2.662** |
| G | Absorption (%) | $\frac{(A-B)*100}{B}$ | 1.092 | 1.194 | 1.543 | **1.276** |

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## TEST REPORT

| | |
|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike |
| Project | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Consultants | Tejus Consultants, Bangalore |
| Contractor | M/s Slp Infra Engineers Pvt Ltd. |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| Total Weight: | 3000 gms | | |
| Type of Material | Fine aggregate (River Sand/ M sand) | Proposed Use | concrete |
| Sample Location | At Site/Plant | Date of Sampling | 18.03.19 |
| | | Date of Testing | 18.03.19 |

| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing (Zone-II) |
|---|---|---|---|---|---|
| 10.00 mm | 0 | 0 | 0 | 100.00 | 100 |
| 4.75 mm | 208 | 208 | 6.93 | 93.07 | 90 - 100 |
| 2.36 mm | 302 | 510 | 17.00 | 83.00 | 75 - 100 |
| 1.18 mm | 402 | 912 | 30.40 | 69.60 | 55 - 90 |
| 0.600 mm | 482 | 1394 | 46.47 | 53.53 | 35 -59 |
| 0.300 mm | 760 | 2154 | 71.80 | 28.20 | 8-30 |
| 0.150 mm | 638 | 2792 | 93.07 | 6.93 | 0 - 10 |
| Pan | 208 | 3000 | | | - |
| | | | | | |

Remarks : Satisfactory / Not Satisfactory

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# Test Report on Cement

| | |
|---|---|
| Project | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | M/s Slp Infra Engineers Pvt Ltd. |
| Sample ID | Cement |
| Date of Sample Tested | 18.03.19 |
| Sample Supplied By | Agency |

| Sl.No. | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part-5) | 35Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part-5) | 340 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part-3) By the Le-Chatelier method | 3mm | Not More than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part-4) | 26.00% | 25 % to 35 |

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# Test Report on Cement

| | |
|---|---|
| Project | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | M/s Slp Infra Engineers Pvt Ltd. |
| Sample ID | Cement |
| Date of Sample Tested | 18.03.19 |
| Sample Supplied By | Agency |

| Sl.No. | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part-5) | 37 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part-5) | 346 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part-3) By the Le-Chatelier method | 2mm | Not More than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part-4) | 29.00% | 25 % to 35 |

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# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Project: | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Client: | Bruhat Bangalore Mahanagar Palike |
| Consultant: | TEJUS CONSULTANTS |
| Contractor: | M/s Slp Infra Engineers Pvt Ltd. |
| Grade of concrete: | M15 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 19.03.19 | 26.03.19 | 7 days | 8.120 | 22500 | 215 | 9.56 | 9.53 |
| 2 | 19.03.19 | 26.03.19 | 7 days | 8.130 | 22500 | 219 | 9.73 | |
| 3 | 19.03.19 | 26.03.19 | 7 days | 8.140 | 22500 | 209 | 9.29 | |

Note:
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## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Project: | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Client: | Bruhat Bangalore Mahanagar Palike |
| Consultant: | TEJUS CONSULTANTS |
| Contractor | M/s Slp Infra Engineers Pvt Ltd. |
| Grade of concrete: | M15 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 19.03.19 | 16.04.19 | 28 days | 8.130 | 22500 | 350 | 15.56 | 15.35 |
| 2 | 19.03.19 | 16.04.19 | 28 days | 8.138 | 22500 | 346 | 15.38 | |
| 3 | 19.03.19 | 16.04.19 | 28 days | 8.146 | 22500 | 340 | 15.11 | |

Note:
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moved in the laboratory/Site.
Any Query regarding the report must be reported reported within 15days from the date of testing.

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## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Project | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | M/s Slp Infra Engineers Pvt Ltd. |
| Grade of concrete: | M15 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 19.03.19 | 27.03.19 | 7 days | 8.122 | 22500 | 210 | 9.33 | 9.21 |
| 2 | 19.03.19 | 27.03.19 | 7 days | 8.146 | 22500 | 208 | 9.24 | |
| 3 | 19.03.19 | 27.03.19 | 7 days | 8.142 | 22500 | 204 | 9.07 | |

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

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## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Project: | Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11 |
| Client: | Bruhat Bangalore Mahanagar Palike |
| Consultant: | TEJUS CONSULTANTS |
| Contractor: | M/s Slp Infra Engineers Pvt Ltd. |
| Grade of concrete: | M15 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 19.03.19 | 17.04.19 | 14days | 8.136 | 22500 | 305 | 13.56 | 13.63 |
| 2 | 18.03.19 | 17.04.19 | 14days | 8.142 | 22500 | 307 | 13.64 | |
| 3 | 18.03.19 | 17.04.19 | 14days | 8.148 | 22500 | 308 | 13.69 | |

Note:
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